

**TRANSGENIC UNGULATES HAVING REDUCED PRION PROTEIN  
ACTIVITY AND USES THEREOF**

**Abstract of the Disclosure**

The invention provides cloned transgenic ungulates (e.g., bovines) in which prion protein activity is reduced by one or more genetically engineered mutations. Desirably, these transgenic bovines are also genetically modified to express xenogenous (e.g., human) antibodies. Because of their resistance to prion-related diseases such as bovine spongiform encephalopathy (also known as mad cow disease), these bovines are a safer source of human antibodies for pharmaceutical uses and a safer source of agricultural products.

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